

# FOLIO

University of Alberta

29 May 1986

## Spring Convocation

### Ten to be Awarded Honorary Degrees

*The following individuals will be awarded honorary Doctor of Laws degrees at Spring Convocation, 2 through 6 June.*

#### Paul Babey

Paul Babey, Vice-Chairman of the Farm Credit Corporation, has been actively involved in agriculture throughout his life as a farmer and as an executive in various provincial and national farm organizations. The youngest man ever elected President of the Farmers' Union of Alberta, he later served as Vice-President of its Canadian counterpart, the National Farmers' Union.

He was Vice-President of the Alberta Federation of Agriculture for seven years and represented the province's farmers nationally as a Director of the Canadian Federation of Agriculture. Mr. Babey was instrumental in bringing provincial farm organizations such as the Farmers' Union of Alberta and the Alberta Federation of Agriculture into an umbrella organization called Unifarm. He was elected its first President in 1970.

Mr. Babey was called to Ottawa in 1972 to head the National Farm Products Marketing Council. As Chairman, he helped organize the



Paul Babey

University of Alberta

Canadian Egg Marketing Agency, Chicken Marketing Agency, and Turkey Marketing Agency. In 1979, he was appointed Vice-Chairman of the Farm Credit Corporation (FCC) and has worked successfully for amendments to federal legislation which led to the FCC's borrowing authority on capital markets.

#### Patricia Burns

While working at the Cross Cancer Institute from 1970 to 1985, Patricia Burns helped to establish the Northern Alberta breast cancer registry and was a member of the Breast Unit at the same hospital.



Patricia Burns

During that same time frame, Dr. Burns and other members of the Breast Unit took part in clinical research in breast cancer, as well as the treatment and follow-up of patients with breast cancer. These efforts were supported by the Alberta Heritage Trust Fund for Cancer Research and the Medical Research Services of Alberta (now the MSI).

Dr. Burns is recognized internationally for her work in breast disease and, although retired since last July, continues to teach family practice residents. She was a major influence in changing surgical procedures in

northern Alberta from radical mastectomies to lumpectomies, with conservation of the breast if feasible. As one of the province's leading authorities on breast cancer, Dr. Burns' dedication is reflected in the numbers of patients she accepted responsibility for: she examined every new patient referred to the clinic; examined some 2,000 follow-up patients annually; and was responsible for all the radiation therapy given breast cancer patients.

A native of Wales, Dr. Burns graduated from the University of Edinburgh and practised family medicine in Scotland and Calcutta, India, before she specialized in radiotherapy. Dr. Burns was a senior registrar in the Radiotherapy Department, Royal Infirmary and Western General Hospitals, Edinburgh, before she joined the Cross Cancer Institute and the University in 1970. She was a senior radiotherapist with the Institute and an Associate Professor in the Faculty of Medicine teaching radiology and oncology.

#### Bohdan Hawrylyshyn

Bohdan Hawrylyshyn is Director of the International Management Institute (IMI), in Geneva, Switzerland. He has been involved with the IMI since 1960 when he joined the faculty as Director of Studies. In 1968, Dr. Hawrylyshyn was appointed Director of the Institute and set about making it one of the world's top international business institutes. The IMI, a forerunner in the development of international management education, has "graduated" some 19,000 business executives and public servants from more than 100 countries.

A native of the Ukraine, Dr. Hawrylyshyn came to Canada from a German refugee camp on a contract as a lumberjack (he had been taken to Germany when he was 18 as part of a forced labor

## The People's Choice

You can't beat the band—the Convocation Band, that is. For 10 years, it has "sounded off" at Convocation and reached high levels on the applause meter. The annual process starts, fittingly enough, with director Ernest Dalwood. He selects a program of light, popular music for each day of convocation. This year, audiences will hear tunes from "Carousel", "The Sound of Music" and "Pineapple Pole" by Arthur Sullivan.

The 19 members of the Band will arrive at the Jubilee Auditorium early but not too early because they know their stuff thoroughly (the Band plays similar kinds of music as the Old Strathcona Town Band) and prefer to rehearse only on the first day of convocation. As soon as the doors open at 1:30 p.m. Professor Dalwood gives the downbeat. For 30 minutes, the audience is treated to jubilant sounds that herald a day of celebration.

When convocation exercises start at 2 p.m., the band, taking its cue from Professor Dalwood, will retire to the musicians' lounge and return later in the afternoon to play the one constant of convocation, Elgar's "Hail Glorious Day."

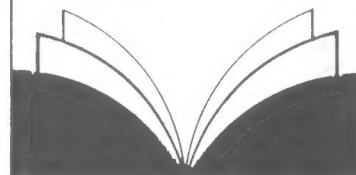
The Band doesn't have any particular favorites and requests are out of the question. Just put your faith in Professor Dalwood and you will likely leave the Auditorium humming or whistling. You won't be alone. □

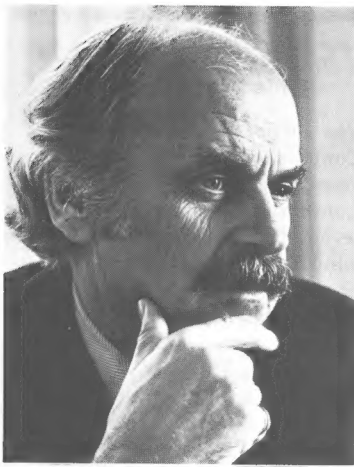
battalion). One of the first "displaced persons" to be admitted to the University of Toronto, he graduated with bachelor's and master's degrees. He earned his doctorate in Economics from the

*Continued on page two*

## Contents

- Convocation calendar
- Personnel changes in University Hall
- The (enrolment and instructional workload data) tables are set
- Construction flags unfurled again
- Garden party for Chancellor





Bohdan Hawrylyshyn

University of Geneva.

Dr. Hawrylyshyn is a member of the Club of Rome, a Fellow of the World Academy of Arts and Sciences, and Vice-Chancellor of the International Academy of Management. His articles and books have been translated into at least 10 different languages and his latest book, *Road Maps to the Future*, has had a profound impact not only on Western societies but also on the socialist world.

### Lila Lee

Lila Lee is President of the Clifford E. Lee Foundation, a philanthropic entity which channels the bulk of its funding into social welfare causes and the arts.

As President, Mrs. Lee was instrumental in the selection of Foundation board members committed to the purposes shared by her late husband and herself. She has provided guidance and leadership to the Board which in turn has funded a number of organizations and services which have the capacity to enhance the quality of life in the community. Projects supported by the Foundation include shelters for battered women; non-profit quality day care programs; the Boyle Street Medical Centre; a nature sanctuary near Devon; several playwriting and choreography awards; the Edmonton Symphony and National Youth Orchestras; the



Lila Lee

Edmonton Art Gallery; the Citadel Theatre; and Lee Pavilion, a downtown, indoor park which is part of the Citadel complex.

Mrs. Lee, who has born in Assiniboia, Saskatchewan, is a citizen at large when it comes to community affairs. As a teacher, Chataqua representative, and community volunteer, she became concerned about the expansion of social welfare programs in Canada. In the '30s and '40s, she participated in political movements, working energetically for better government legislation to provide universal benefit programs.

### Peter Lougheed

Peter Lougheed stepped down as Premier of Alberta on 1 November 1985 after 20 years as leader of the province's Progressive Conservative Party, 14 of those years as Premier. In 1965, the Party had no members in the provincial legislature. Less than two years later, his Party had become the Official Opposition and in August 1971, Mr. Lougheed was elected Premier. In each of the following elections (1975, 1979 and 1982), his Party increased its popular vote and majority (in the 1982 election, the PCs won 75 out of 79 constituencies).



Peter Lougheed

One of Mr. Lougheed's major accomplishments as Premier was the establishment of a "Heritage Fund" to invest oil and natural gas revenues for the benefit of future Albertans. Today, the Fund's assets exceed \$14 billion.

Mr. Lougheed, an alumnus of this University (BA, LLB), took his MBA at Harvard. He joined one of Canada's largest construction companies, Mannix Company Ltd., in 1956, and left six years later to enter private legal practice in Calgary.

He was appointed a member of the Privy Council by the Queen in 1982 and currently is Honorary Chairman of the XV Olympic Winter Games Organizing Committee; a lecturer at the Universities of Alberta and Calgary; an adviser to the Newfoundland Government; a

member of the International Advisory Council of Morgan Frenfell, a prominent merchant bank based in London, England. In addition, he is senior partner of the Bennett Jones law firm of Edmonton and Calgary. Mr. Lougheed is also a Director of ATCO Ltd., Genstar Corporation, Luscar Ltd. and Canadian Pacific Ltd.

### The Right Reverend Joseph Malone

Joseph Malone was born in Edmonton and received his liberal arts and theological education in Toronto. After being ordained in the priesthood in 1929, he did post-graduate work in theology at the Angelicum University in Rome. Monsignor Malone served various parishes in central Alberta until he joined the Canadian Army as chaplain in 1939. He left the service in 1946 as a lieutenant-colonel and returned to pastoral duties in Edmonton.

Among his achievements is the construction of St. Joseph's Basilica-Cathedral, which for 40 years had been a basement church. Under his guidance, the parishoners quickly paid what was then an enormous debt. Monsignor Malone has been active in a number of community organizations in Edmonton and is a former member of the University Senate.



Monsignor Malone

For dedicated leadership and work within the Roman Catholic Church, His Holiness, the Pope, raised Monsignor Malone to the rank of Domestic Prelate and bestowed on him the title of "Monsignor" in 1956. The Edmonton Rotary Club also recognized his contributions by naming him a Paul Harris Fellow and making a substantial gift, in Monsignor Malone's name, to the International Scholarship Fund.

### Sherburne McCurdy

Sherburne McCurdy, President of Alberta College for 14 years, has been actively involved in the field of education for over 35 years. Beginning in his native Nova Scotia, Dr. McCurdy received his

## Convocation Calendar

**2 June.** Graduands of Faculties of Arts, Faculté Saint-Jean, Home Economics, Physical Education and Recreation

Honorary degree recipients: Right Reverend Joseph Malone, Robert Wark

Report to Convocation: Myer Horowitz

Convocation Address: Dr. Wark

Rutherford Undergraduate Teaching Award recipients honored: Henry Kreisel, Norman Yates

Students' Union Merit Award recipient: Denise Dowdall

**3 June.** Graduands of Faculties of Business, Engineering

Honorary degree recipients: Bohdan Hawrylyshyn, Sherburne McCurdy

Report to Convocation: Peter Meekison

Convocation Address: Dr. Hawrylyshyn

**4 June.** Graduands of Faculties of Law, Science, Rehabilitation Medicine

Honorary degree recipients: Lila Lee, Mr. Justice Walter Tarnopolsky

Report to Convocation: Frank Jones

Convocation Address: Mr. Justice Tarnopolsky

Rutherford Undergraduate Teaching Award recipient honored: James Muldowney

**5 June.** Graduands of Faculties of Education, Agriculture and Forestry

Honorary degree recipients: Paul Babey, Thelma Scambler

Report to Convocation: Allan Warrack

Convocation Address: Mrs. Scambler

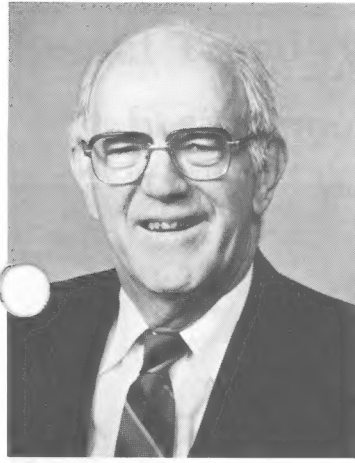
**6 June.** Graduands of Faculties of Graduate Studies and Research, Medicine, Dentistry, Nursing

Honorary degree recipients: Patricia Burns, Peter Lougheed.

Report to Convocation: J. Gordin Kaplan

Convocation Address: Mr. Lougheed

Rutherford Undergraduate Teaching Award recipient honored: Jeanette Boman



*Sherburne McCurdy*

bachelor's and master's degrees from Dalhousie University. He was Principal and teacher at Prince of Wales College in St. John's, Newfoundland, for 12 years, and served as President of that province's Teachers' Association and of the Canadian Teachers' Federation.

He moved to Edmonton in 1962, lectured at our University and studied for and received his doctorate from the same institution. Dr. McCurdy then returned to Newfoundland to become Supervisor of Instruction, United Church Board of Education. He also served as President of the Cabot Chapter of the Canadian College of Teachers and, from 1967 to 1971, was Executive Secretary of the Newfoundland Teachers' Association.

Dr. McCurdy accepted the position of Alberta College President in 1971 and moved back to Edmonton. His interest in the field of education led him to become President of the Edmonton Association for Continuing Education and Recreation and of the Education Society of Edmonton. He is a former University Senate member (and chairman of the Senate's Task Force on Second Languages) and, as shown by the Bach Tercentenary Festival, an unabashed backer of that master.

### **Thelma Scambler**

Thelma Scambler, a pioneer in pre-retirement education, has not confined her energies to the area, and has been an active volunteer throughout her life. When she moved to Edmonton from Winnipeg in 1948, she immediately became involved in numerous volunteer organizations. She has worked on committees investigating cruelty to children; aging and the elderly; family planning; services to landed immigrants; and children and adults with learning disabilities.

In addition to her numerous volunteer activities, Mrs. Scambler worked for the province in the



*Thelma Scambler*

development of the Preventive Social Services program, which was a forerunner of many efforts to keep social problems from developing. Following this, she turned her attention to New Horizons, an office which works with senior citizens groups in Alberta, Yukon and Northwest Territories. As its regional manager, Mrs. Scambler was instrumental in setting the tone of the whole program, and when she retired the federal government appointed her to the National Advisory Council on Aging.

Mrs. Scambler also found time to serve on the University Senate and as a board member for the Centre for Gerontology. Her contributions to society have brought her an Alberta Achievement Award and a Queen's Jubilee Medal. She has also been awarded an honorary life membership in the Canadian Association of Religion and Gerontology and the National Community Service Award of the National Council of Jewish Women.

### **Mr. Justice Walter Tarnopolsky**

Currently a member of the Court of Appeal of the Supreme Court of Ontario, Mr. Justice Tarnopolsky takes special interest in questions bearing on minorities, discrimination and especially on the difficult issue of reconciling group (collective) and individual rights. This expertise led to his involvement in discussions relating to Canada's crisis of language, culture and identity, and Quebec's place in confederation. In addition, during the negotiations and deliberations which culminated in the inclusion of the *Charter of Rights and Freedoms* in Canada's new constitution in April 1982, Mr. Justice Tarnopolsky was frequently consulted by the Joint Senate—House of Commons Parliamentary Committee on the Constitution.

As a teacher and scholar, Mr. Justice Tarnopolsky is respected

internationally for his analysis of the relationship between human rights and civil liberties and the law, especially in the North American context. His work, *The Canadian Bill of Rights*, in two editions, is considered by many to be the definitive study of the subject. Mr. Justice Tarnopolsky has taught law at the Universities of Saskatchewan, Ottawa and Windsor, and at Osgoode Hall Law School. He was Director of the Human Rights Research and Education Centre, University of Ottawa, and sat as a member of the Canadian Human Rights Commission.

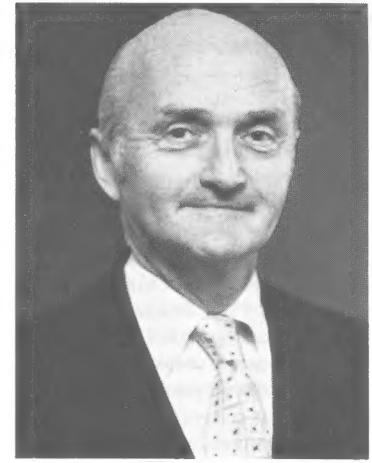


*Mr. Justice Tarnopolsky*

### **Robert Wark**

Robert Wark is curator of the acclaimed Huntington Art Gallery in California.

An alumnus of the University of Alberta, he is recognized internationally as an authority on Georgian art and has served frequently as a consultant to many graduate projects at campuses such as Harvard, Yale and Stanford. He is one of the most respected



*Robert Wark*

scholars in the field of 18th century art historical studies. Under his supervision, the Huntington Art Gallery, of which he became curator in 1956, has long been considered to have one of the most important holdings of 18th century English painting and drawing. In addition, Dr. Wark oversees a valuable archive of specialized publications and photographs for research, making the Gallery one of the most significant centres for art research outside England.

In addition to being a museum administrator and scholar, Dr. Wark's activities include teaching at the university level, where he has guided many graduate students. He has also published extensively. One of his books, *Ten British Pictures 1740-1840*, defined for the first time the special character of romanticism in British art. Dr. Wark is considered to be the most important scholar in the world today on the subjects of British Romantic art theory, and on questions of style and connoisseurship in British painting, watercolors and drawings. □

## **Behind the Pomp and Ceremony**

The stage is set: a colorful array of flowers and plants graces the foreground; the Chancellor's chair occupies centre stage; seating for the President, the Chairman of the Board of Governors and the platform party is all arranged; the orchestra pit is abuzz with the sound of musicians fine-tuning their instruments. The academic procession is about to file in.

This scene is the result of thousands of hours of work on the part of many people and virtually all credit for the seemingly effortless ceremonies should go to them.

The Registrar's Office is where most of the pre-Convocation action (or chaos, headaches and hassles, according to one coordinator) can

be found. Under the watchful eye of people like Bonnie Afanasiff, Lorna Arndt and Joan MacDonald, the Office is responsible for everything from seating arrangements to the distribution of degree parchments. It's hardly a cakewalk. The Jubilee Auditorium, for instance, has only so many seats and it's Joan MacDonald's job to try and please everyone when it comes to assigning seats. For eight years, she's been responsible not only for keeping the campus posted on ticket and ceremonies' information but for extending some 600 special invitations to dignitaries.

In addition, Mrs. MacDonald is secretary to the Convocation Committee which has Allen Neufeld, Elementary Education, as

its chairman. Committee members are Bonnie Afanasiff, Associate Registrar (Records); Janet Bentley, Board of Governors; Doug Burns, Ceremonies and Protocol; Dallas Cullen, Business; John Bertie, Chemistry; James Kennedy, Engineering; Brian MacPherson, Anatomy; Paul Pearlstone, Graduate Studies; Susan Peirce, Alumni Affairs; Lois Stanford, Linguistics; Edgar Toop, Plant Science; and Mary Totman, Senate. This committee meets several times a year to conduct a post-mortem of the previous convocation, to discuss possible changes for future exercises, and to make decisions regarding any alterations.

This year, Lorna Arndt has some 4,600 degree parchments which have to be distributed at spring convocation. But before they can be awarded, they all have to be checked to ensure that the correct name and spelling are on each parchment. The parchments are given to graduands immediately following the ceremonies and she has to strategically place desks in mezzanine areas of the Auditorium in order that students can easily find where to pick up their degree. Ms. Arndt has spent 80 percent of her time since February working towards the five afternoons of convocation.

The Registrar's Office staff also look after the academic gowns, including those worn by the honorary degree recipients, and train the floor marshalls whose job it is to greet guests and show them to their seats.

Then there's the mammoth job of organizing the distribution of the gowns, hoods and mortarboards to the graduates. This job is handled (literally) by 10 women who are

guided by Bernice Pedden, a woman who has 32 years' experience in such matters. Shortly before convocation, the 900 or so gowns and mortarboards have to be fetched from MacCosham Storage where they are kept when not in use. The Bookstore owns the gowns and it's the responsibility of the women to inspect each outfit carefully and to mend anything that requires it. Students head to SUB where the gowns are hanging and fittings take place. Although there is a charge for the gowns, convocation is run on a non-profit basis.

Down the sidewalk at Athabasca Hall, the Offices of the Senate and Alumni Affairs have also been busy preparing for these five important afternoons. The Senate has already selected the honorary degree recipients, but its job is far from over. Mary Totman, Executive Officer, corresponds with each recipient and answers numerous questions on convocation procedure and protocol. As well, Senate arranges the convocation luncheons, held in honor of the recipients, and escorts special guests.

Susan Peirce and her Alumni Affairs colleagues welcome their new alumni members with receptions following each convocation. On each mezzanine level of the auditorium one can find the alumni-hosted celebrations packed to capacity with grads, family and friends.

There is much ado about something when it comes to convocation and the behind the scenes work of numerous people make our ceremonies the envy of many universities. □

## Office of Vice-President (Administration) Reorganized

The restructuring of the Office of the Vice-President (Administration) was announced recently.

A.M. Rennie, formerly Acting Vice-President (Finance), is now Associate Vice-President (Finance); J.B. McQuitty, formerly Associate Vice-President (Administration), becomes Associate Vice-President (Facilities); and David C. Norwood, formerly Assistant Vice-President (Administration), assumes the post of Associate Vice-President (University Relations).

The following offices are aligned with the Offices of the Associate Vice-Presidents:

Mr. Rennie: Comptroller, Personnel Services and Staff Relations, Housing and Food Services, University Bookstore, Materials Management, Director of Budget Planning, and Internal Audit. Professor McQuitty: Physical Plant, Planning and Development and Technical Services. Mr. Norwood: Fund Development, Public Affairs, Alumni Affairs, Investment Office, Pension and Benefits Administration and Campus Security.

An Edmontonian by birth, Mr. Norwood attended Oliver School and Ross Sheppard Composite High School and earned his BA (Honours) (1968) and MA (History) (1970) at the University of Alberta.

He did graduate work at the University of Toronto before joining the University of Alberta's Publications Office in May 1973 as a "temporary" receptionist. Shortly thereafter, he became a staff writer.

Mr. Norwood joined the Vice-President's Office in 1975 as

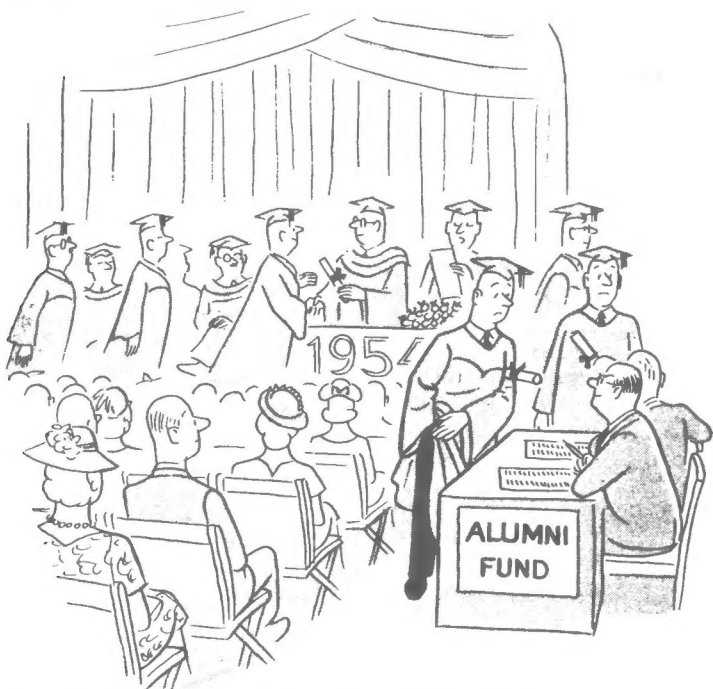


David Norwood

Administrative Assistant. He then held the positions of Assistant to Vice-President (1976 to 1979), Executive Assistant to Vice-President (1979 to 1982) and Assistant Vice-President (1982 to 1986).

Mr. Norwood has on-going, informal liaison functions with the Students' Union and the Graduate Students' Association and undertakes ad hoc projects on behalf of the Vice-President (Administration) and the President.

His outside interests include running and music. He is a member of the Edmonton Symphony Society's Board and President of the Edmonton Concert Hall Foundation. (Ed. Note. See Folio 9 October 1980 and 26 July 1984 for further information on Mr. Rennie and Professor McQuitty, respectively.) □



Credit: The Association of Commonwealth Universities' Bulletin of Current Documentation, Number 73, April 1986.

page four, Folio, 29 May 1986

## Alberta Home Economics Association Honors Dean Badir

The Alberta Home Economics Association (AHEA) recently presented the 1985-86 AHEA Fellow Award to Doris Badir, Dean of Home Economics. The award is presented to members who are making a distinct contribution to human welfare which in some way strengthens home and family life.

At the presentation ceremony, Dean Badir's contributions to the profession and the leadership that she has displayed nationally and internationally were noted. She is currently the International Federation of Home Economics' Vice-President for the Americas. Of

particular interest is her concern for the role of women, which extends to issues of equity in employment and status. Dean Badir has served as a board member for the Vanier Institute of the Family (1980 to 1985), and was a member of the Task Force on the Informal Economy. She has been a frequent speaker to various groups on women's roles, consumer economics and issues for families.

Dean Badir will step down from her post in Home Economics at the end of June and take up new duties as Special Assistant to the President on Matters of Equity. □

# Recent Trends in Enrolment and Instructional Workload Data

Articles presenting information related to the over-all growth in enrolments and teaching workload experienced during recent years appeared in the 22 March 1984 and 11 April 1985 issues of *Folio*. This article updates and expands on these articles, with six tables covering the most recent three-year period, 1983-84 to 1985-86. All information presented herewith is

effective 1 December of the corresponding Winter Sessions. Official enrolment figures were obtained from the *Summary of Statistics*, a document published annually by the Office of the Registrar. Data on course registrations, Weekly Student Hours and Weekly Contact Hours are prepared each term by Institutional Research and

Planning.

Table 1 shows full-time undergraduate enrolments and percentage changes between consecutive Winter Sessions. Although undergraduate enrolments increased by 149 (0.7 percent) from 1984-85 to 1985-86, this was a considerably smaller change than that between 1983-84 and 1984-85 (533 = 2.6 percent).

Business, Education, Law, the MD program in Medicine, and Science actually declined significantly from 1983-84 to 1985-86. On the other hand, Arts, Dental Hygiene, Home Economics, the MLS and PGME programs in Medicine, Nursing, Pharmacy and Pharmaceutical Science, Physical Education and Recreation, and Saint-Jean experienced increases in excess of 5

**Table 1: Full-Time Intramural Winter Session Undergraduate Students**

Faculty of Student Enrolment	Winter Session			% Change 83-84 to 84-85	% Change 84-85 to 85-86
	83-84	84-85	85-86		
Agriculture and Forestry	710	766	770	7.9%	0.5%
Arts	4035	4350	4586	7.8%	5.4%
Business	1560	1602	1502	2.7%	-6.2%
Dentistry — Dent Hygiene	70	75	82	7.1%	9.3%
— Post Grad Dipl	3	4	4	33.3%	0.0%
— DDS	193	191	190	-1.0%	-0.5%
Education	3448	3372	3177	-2.2%	-5.8%
Engineering	2020	2135	2174	5.7%	1.8%
Home Economics	387	387	411	0.0%	6.2%
Law	515	503	502	-2.3%	-0.2%
Medicine — Med Lab Science	92	95	106	3.3%	11.6%
— PGME	395	399	464	1.0%	16.3%
— MD and Other	462	449	416	-2.8%	-7.3%
Nursing	502	522	581	4.0%	11.3%
Pharmacy and Pharm Sci	342	344	367	0.6%	6.7%
Phys Education and Rec	678	711	769	4.9%	8.2%
Rehabilitation Medicine	356	384	390	7.9%	1.6%
Saint-Jean	282	284	300	0.7%	5.6%
Science	4354	4364	4295	0.2%	-1.6%
<b>Total Undergraduate</b>	<b>20404</b>	<b>20937</b>	<b>21086</b>	<b>2.6%</b>	<b>0.7%</b>

**Table 2: First Year Full-Time Intramural Winter Session Undergraduates**

Faculty of Student Enrolment	First Year Enrolments and Percentages of Total					
	83-84		84-85		85-86	
	1st Year	%	1st Year	%	1st Year	%
Agriculture and Forestry	204	29%	231	30%	195	25%
Arts	1313	33%	1431	33%	1391	30%
Business	240	15%	273	17%	270	18%
Dentistry — Dent Hygiene	40	57%	40	53%	42	51%
— Post Grad Dipl	2	67%	2	50%	2	50%
— DDS	51	26%	53	28%	49	26%
Education	773	22%	653	19%	624	20%
Engineering	515	25%	496	23%	471	22%
Home Economics	107	28%	66	17%	68	17%
Law	174	34%	176	35%	181	36%
Medicine — Med Lab Science	33	36%	33	35%	35	33%
— PGME	0	0%	0	0%	0	0%
— MD and Other	118	26%	112	25%	117	28%
Nursing	209	42%	201	39%	196	34%
Pharmacy and Pharm Sci	94	27%	101	29%	97	26%
Phys Education and Rec	168	25%	146	21%	132	17%
Rehabilitation Medicine	44	12%	46	12%	44	11%
Saint-Jean	81	29%	112	39%	95	32%
Science	1917	44%	1719	39%	1628	38%
<b>Total First Year</b>	<b>6083</b>	<b>30%</b>	<b>5891</b>	<b>28%</b>	<b>5637</b>	<b>27%</b>

percent between 1984-85 and 1985-86.

Table 2 contains first-year undergraduate enrolment figures, and expresses these as percentages of total undergraduate enrolments for each Faculty. This table shows that enrolments in first year dropped somewhat from December 1984 to December 1985, both in absolute terms and relative to total enrolments. Declining first-year enrolments are important for the

future, because first-year enrolments largely determine total undergraduate enrolments in the long run. Perhaps the most significant decreases between 1983-84 and 1985-86 occurred in Education (773 to 624) and Science (1,917 to 1,628). Large relative decreases were also experienced by Home Economics (107 to 68) and Physical Education and Recreation (168 to 132).

As documented in Table 3,

Graduate Studies continues to be an area of substantial growth for the University. Graduate enrolments increased in most Faculties, and by 4.3 percent over-all last year. The cumulative increase over the last five years amounts to 655 full-time graduate student enrolments, up from 2,087 in 1981-82 to 2,742 in 1985-86.

Tables 4 through 6 present three aspects of instructional activity: course registrations, Weekly

Student Hours (WSH) and Weekly Contact Hours (WCH). WSH and WCH are defined for regularly timetabled course sections as follows:

WSH = (class hours per week) x (number of registrations)

WCH = (class hours per week) x (number of instructors present)

For example, a lecture section which meets three hours per week with a class size of 20 and one instructor present will generate

**Table 3: Full-Time Intramural Winter Session Graduate Students (1 December)**

Faculty of Graduate Specialization	Winter Session			% Change 83-84 to 84-85	% Change 84-85 to 85-86
	83-84	84-85	85-86		
Agriculture and Forestry	194	222	231	14.4%	4.1%
Arts	427	435	473	1.9%	8.7%
Business	145	148	151	2.1%	2.0%
Dentistry	8	7	5	-12.5%	-28.6%
Education	423	464	487	9.7%	5.0%
Engineering	297	312	315	5.1%	1.0%
Home Economics	25	44	46	76.0%	4.5%
Law	8	10	15	25.0%	50.0%
Library Science	67	59	60	-11.9%	1.7%
Medicine	157	176	164	12.1%	-6.8%
Nursing	18	22	32	22.2%	45.5%
Pharmacy and Pharm Sciences	28	37	44	32.1%	18.9%
Phys Education and Recr	67	95	103	41.8%	8.4%
Rehabilitation Medicine	8	7	3	-12.5%	-57.1%
Science	562	575	595	2.3%	3.5%
Visiting & Special	19	15	18	-21.1%	20.0%
<b>Total Graduate Enrolments</b>	<b>2453</b>	<b>2628</b>	<b>2742</b>	<b>7.1%</b>	<b>4.3%</b>

Note: Twenty-two Psychology (Science) graduate enrolments in 1983-84, and nineteen in 1984-85, have been transferred from Science to Arts. All Psychology graduate students were counted together in the 1985-86 Summary of Statistics.

**Table 4: Course Registrations (First Term and Full Year) by Faculty**

Teaching Faculty	Winter Session			% Change 83-84 to 84-85	% Change 84-85 to 85-86
	83-84	84-85	85-86		
Agriculture and Forestry	2819	3111	2985	10.4%	-4.1%
Arts	31590	32259	32303	2.1%	0.1%
Business	6064	6084	5865	0.3%	-3.6%
Dentistry	3952	4191	4325	6.0%	3.2%
Education	9409	9655	9454	2.6%	-2.1%
Engineering	8494	8550	8794	0.7%	2.9%
Home Economics	1632	1549	1579	-5.1%	1.9%
Law	3508	3424	3363	-2.4%	-1.8%
Library Science	324	307	286	-5.2%	-6.8%
Medicine	5509	5505	5826	-0.1%	5.8%
Nursing	1098	1068	1468	-2.7%	37.5%
Pharmacy and Pharm Sciences	1177	1127	1392	-4.2%	23.5%
Phys Education and Recr	4248	4141	4322	-2.5%	4.4%
Rehabilitation Medicine	1700	2043	1819	20.2%	-11.0%
Saint-Jean	1015	1070	1142	5.4%	6.7%
Science	27539	26818	26465	-2.6%	-1.3%
<b>Total Course Registrations</b>	<b>110078</b>	<b>110902</b>	<b>111388</b>	<b>0.7%</b>	<b>0.4%</b>

3x20=60 WSH and 3x1=3 WCH. Similar calculations are performed for courses which do not fit the normal mold (e.g., independent study, practicum, and clinic courses), using definitions for section sizes, class hours, and instructor involvement which provide fair comparisons with regular courses.

Weekly Contact Hour data (Table 6) has been added this year to augment the representation of

teaching activity provided by WSH figures. Neither WSH nor WCH alone gives a fair account of teaching workload. WSH as a measure is insensitive to the extra work involved in teaching multiple sections, while WCH does not describe the level of involvement required of an instructor of a large section. The two measures together provide a somewhat fairer and more complete (though still far from perfect) picture of instructional

loads, while not involving an unmanageable amount of detail.

It is interesting to note that, while course registrations and WSH have increased somewhat over the last three years, WCH have actually declined. This indicates that on average, section sizes have increased. Increased section sizes (either resulting from larger section sizes of the same course, or the cancellation of small section courses) may have occurred in some

cases in response to the conflicting pressures of increased demand and limited resources. Detailed studies of section sizes across the campus are conducted each term by Institutional Research and Planning, as part of a series of projects designed to develop and maintain a comprehensive and consistent base of historical course information. □

**Table 5: Weekly Student Hours by Faculty (1 December)**

<i>Teaching Faculty</i>	<i>Winter Session</i>			<i>% Change</i>	<i>% Change</i>
	83-84	84-85	85-86	83-84 to 84-85	84-85 to 85-86
Agriculture and Forestry	11827	13344	12733	12.8%	-4.6%
Arts	103725	105939	106495	2.1%	0.5%
Business	19739	19690	18959	-0.2%	-3.7%
Dentistry	8739	9198	9497	5.3%	3.3%
Education	44499	46192	44881	3.8%	-2.8%
Engineering	32682	32741	34085	0.2%	4.1%
Home Economics	7017	6748	6467	-3.8%	-4.2%
Law	8462	8298	8184	-1.9%	-1.4%
Library Science	1078	1007	973	-6.6%	-3.4%
Medicine	53184	54201	53555	1.9%	-1.2%
Nursing	7017	7171	10051	2.2%	40.2%
Pharmacy and Pharm Sciences	4756	4413	5227	-7.2%	18.4%
Phys Education and Recr	14313	13910	14282	-2.8%	2.7%
Rehabilitation Medicine	8039	8014	7421	-0.3%	-7.4%
Saint-Jean	3727	3833	4003	2.8%	4.4%
Science	125823	121788	120417	-3.2%	-1.1%
<b>Total Weekly Student Hours</b>	<b>454627</b>	<b>456487</b>	<b>457230</b>	<b>0.4%</b>	<b>0.2%</b>

**Table 6: Weekly Contact Hours by Faculty (1 December)**

<i>Teaching Faculty</i>	<i>Winter Session</i>			<i>% Change</i>	<i>% Change</i>
	83-84	84-85	85-86	83-84 to 84-85	84-85 to 85-86
Agriculture and Forestry	788	779	761	-1.1%	-2.3%
Arts	4557	4559	4467	0.0%	-2.0%
Business	633	550	562	-13.0%	2.1%
Dentistry	1165	1153	1182	-1.1%	2.6%
Education	2965	3085	3034	4.1%	-1.7%
Engineering	1413	1462	1490	3.5%	1.9%
Home Economics	260	242	243	-6.9%	0.4%
Law	250	233	213	-6.8%	-8.6%
Library Science	64	67	67	4.7%	0.0%
Medicine	15138	15624	14580	3.2%	-6.7%
Nursing	557	535	737	-3.9%	37.7%
Pharmacy and Pharm Sciences	246	228	270	-7.5%	18.7%
Phys Education and Recr	621	556	567	-10.4%	1.9%
Rehabilitation Medicine	490	528	514	7.7%	-2.6%
Saint-Jean	360	341	316	-5.3%	-7.3%
Science	4085	4039	4018	-1.1%	-0.5%
<b>Total Weekly Contact Hours</b>	<b>33589</b>	<b>33978</b>	<b>33018</b>	<b>1.2%</b>	<b>-2.8%</b>

*This article was submitted by Bill Cairns, Office of Institutional Research and Planning.*

# Testing Your Aching Back

A pain in the back is second only to the common cold as a cause of lost work time. But there has been no way of objectively measuring the degree of impairment—or of improvement after treatment. Now a machine has been designed that can do this.

A University of Alberta researcher has designed a machine that can measure just what a sore back means in terms of disability.

Shrawan Kumar, in the Department of Physical Therapy, will be able to attach the patient to his machine, then ask that individual, who is lying down, to gently perform a number of standard functions, exerting himself only as far as he can go without pain.

His machine will then measure the force, degree of movement, and the muscle impulses. The information will be simultaneously collected on a chart recorder and a tape recorder, and will also go directly into a computer.

When the data are analyzed, conclusions can be drawn.

And doctors will at last have a handle on the problem of

determining the degree of impairment in a back injury. For, although physical damage to the back may show up on an x-ray or scan, muscle or ligament damage or impairment of function will not. So the problem has always been to estimate the degree of injury, and, after treatment, the degree of recovery.

According to the Back Association of Canada, 80 percent of North Americans will suffer from more or less severe back pain some time in their lives. In the Alberta workforce alone, Workers' Compensation Board figures for 1983 show that 45 percent of new Board cases were back problems, with an estimated cost of \$113.7 million.

Dr. Kumar's first two machines are now in the process of fabrication. By the end of July, he hopes to start putting them to use

collecting data on "normal" as well as on injured backs. People with normal backs—that is, without back pain—will be thoroughly screened, and in this "normal" category, different age groups and both sexes, matched for height and weight with patients, will be evaluated.

Within the next three years, Kumar expects to have assembled statistics on up to 600 backs, half of them normal, the other half injured. This will establish a comprehensive data base on back function, and will also provide a base of information on how different injuries and diseases affect back function.

The focus of Kumar's work is on preventing back injuries, and on matching the worker to the work. He has developed a computer program that can, within minutes—given certain easily measured particulars of the task, as well as individual characteristics of the operator—calculate the body stresses involved in a variety of industrial tasks.

Now he is working on two extensions of the program: if the operator's posture cannot be changed, what should be the limit of the task; and if the task cannot be changed, what should the posture be.\* □

\*Reprinted from the May/June issue of Research Report.

## The University Mace

The University of Alberta Mace was designed and crafted specifically for the University as a gift from Francis Philip Galbraith, Chancellor of the University of Alberta from 1964 to 1970. It was presented by his son, Michael Galbraith, on behalf of his father, on 26 May 1970.

Among its elements are: the Star of Saint Thomas Aquinas, the Patron Saint of Scholars; the Wild Rose of Alberta; the Maple Leaf; and the separate charges which make up the University's Coat of Arms. The University motto, *Quaecumque Vera*, encircles the staff. It is carried before the Chancellor, or Vice-Chancellor, in procession and rests on its stand in full view of the assembly during Convocation.

Centuries ago, the Mace was a symbol of authority over life and death. Today, it represents power—the power of knowledge and the importance of the University in the community.

It was made of sterling silver which was then rhodium plated, after the insertion of the various enamelled shields which make up its elements. Certain other parts were gold plated in 24 carat hard gold and applied by a special electro-plate process.

It was intended that the mace should be modern in appearance but with mediaeval origins. The preponderance of visual weight at the top of the staff and the rather complex section through the metal-work at this point are reminiscent of the use of the mace as a weapon, defensive or aggressive. The stand is of Bombay rosewood.

## The Chancellor's Chair

The Chancellor's Chair was presented to the University of Alberta as a gift from the 1922 graduating class. It is made of solid oak with a padded leather back and seat. Above the padded leather back is carved the University motto, *Quaecumque Vera*, together with the class year 1922 and the University coat-of-arms.

A similar chair with design modifications more appropriate to the University of Calgary was presented to that university by the University of Alberta General Alumni Association in the fall of 1962. □

# FOLIO

Volume Twenty-two  
Number Forty

Office of Public Affairs  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8  
(403) 432-2325.

All enquiries and  
correspondence should be  
directed to:  
Ron Thomas  
Editor

Public Affairs produces *Folio*  
on a regular basis for the  
staff and other interested  
persons.



University  
of  
Alberta

### Deadlines:

**Notices of coming events:** 9 a.m. three weeks in advance of desired publication date.

**Classified advertisements:** 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

*Folio* contents may be reprinted with acknowledgment.

ISSN 0015-5764  
Copyright 1986

## The Next Decade and Beyond: A Plan for the Future

If you have not yet received a copy of this major discussion paper, please telephone or write to the **Office of Public Affairs**, 423 Athabasca Hall, Edmonton, Alberta T6G 2E8 (tel. 432-2325)

## University Heeds 'Build for Learning and Peace' Call

The Catholic University of Lublin (KUL) is Eastern Europe's only university free from government control. It operates without any support from the Polish government and is open to students of all nationalities and religions.

To further sharpen the focus, KUL has close contacts with many free world universities, including the University of Alberta. Earlier this month, Mieczyslaw Krapiec, former Rector of Lublin University, visited President Horowitz. He was accompanied by Jean Forest, who is heading a Northern Alberta Committee which is part of a national campaign to support KUL, and Peter Czaratoryski, a member of the committee. The rallying cry is "Build for Learning and Peace."

New facilities are essential if the liberal arts and theological centre (3,500 students, 400 academic staff) is to execute its mandate. The Canadian Committee has pledged to raise \$5 million to help with the construction of new lecture rooms, dormitories, dining halls, cafeterias, a gymnasium and a new wing that will honour KUL's most famous professor, Pope John II.

The university also plans to establish a chair of Canadian studies.

Three visitors thanked Dr. Horowitz for his correspondence with Mrs. Forest in which he stated that this University is pleased to



Peter Czaratoryski, Dr. Horowitz, Mrs. Forest and Father Krapiec talk about KUL and the University of Alberta.

lend its support to the fund-raising cause. "The right to pursue education through the curriculum and institution of one's choice is a freedom that we all must support in every part of the world," Dr. Horowitz wrote.

Of the \$5 million, northern Alberta's share is \$300,000 and it is that amount to which Mrs. Forest, campaign patrons and workers are addressing themselves.

More than \$80,000 has been raised so far. The campaign, impetus for which was supplied by a banquet under the patronage of Premier Getty, Mayor Decore and

Archbishop Joseph MacNeil (Chancellor Savaryn brought greetings from the University) and the designation of 3 May as Polish Day in Alberta, will continue until mid-June. Donations to "assist the cause of educational freedom" should be made out to The John Paul II Collegium Building Fund and sent to 11485 106 Street, Edmonton, Alberta T5G 2P8. Canadians will benefit in that Canadian engineers will assist with the construction of the facilities and much of the funding will be used to buy building materials and equipment in Canada. □

## Folio

### Display Advertising

*Folio* is the official news publication of the University of Alberta, published every Thursday throughout the year (except for July and August when it appears bi-weekly). It has a regular distribution of 9,000 of which 7,800 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

### Sizes and rates

The basic unit size is 27 agate lines x 23 picas (3 7/8" x 2"). The full page is divided into 10 such units, any combination of which is available at a cost of \$35 per unit (minimum 1 unit). Half page cost: \$175. One column cost \$87.50. There is a 15% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

### Other specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is necessary; there is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work.

### Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 432-2325 and ask about *Folio* display advertising, or write to: *Folio* Display Advertising Office of Public Affairs 423 Athabasca Hall University of Alberta Edmonton, Alberta T6G 2E8

## Software Library Allows Computing Services to Choose Rather Than Write Needed Routines

Clement Leibovitz, senior analyst in the Computing Services Department, was convinced that by acquiring the IMSL Library, the University of Alberta could stop "reinventing the wheel."

That was 15 years ago when the University had 4,000 fewer students than today. In 1986, with approximately 22,000 students in diverse disciplines, the University does not have time for reinvention.

"At the time of our first subscription to IMSL, the Numerical Analysis Department was mainly writing the required software for the various university departments. We realized that we needed to change the direction toward which the numerical analysis group was headed."

Dr. Leibovitz explains that there was duplication of effort in writing

software, not only on this university campus but at every university campus. Even though some program exchange occurred among universities, most software production was, to some extent, redundant.

"Certainly there was some exchange of efforts, but the reinventing of the wheel was occurring on every university campus," he recalls.

"We couldn't afford to develop state-of-the-art software in all directions. If we could rely on a package that would be state-of-the-art, then we could stop producing the software and start helping the different departments convert their problems into computing problems," says Dr. Leibovitz.

After deciding to free themselves

from the burden of writing each department's software, the numerical analysis group focused on selecting a software library.

"We even went to the extent of asking the users to discuss the experimental output so that we would have significant data on which to base software evaluation. The quality of help we could provide for our users became much greater the moment we could refrain from giving most of our time to writing software," says Dr. Leibovitz.

"Of course, we had a lot of problems convincing the various departments to use a new package," he notes. "Since the users were accustomed to different software, it would mean an amount of work to switch to IMSL. And there is a

*Continued on page ten*

*Continued from page nine*  
mistrust of everything that is new."

To educate the users, the department printed on-line messages encouraging comparison between IMSL and the existing package. User acceptance followed shortly after the department launched its "IMSL campaign."

The University of Alberta not only started to recommend the Library to all universities, but it also assisted IMSL in enhancing the software. Dr. Leibovitz explains, "We tried to look at the situations in which the software needed improvement. We found some areas

for improvement in a number of routines, so we collaborated with IMSL in its efforts to improve the Library."

"However," he continues, "it was soon clear that there was nothing to be improved from our side anymore. The Library has liberated us from the worry of having to write software."

The Library allows the Computing Services Department to select instead of write needed routines. "In computing differential equations, for example, we are given results on which we can rely," says Dr. Leibovitz. The

department can concentrate on solving department-specific problems and writing user-specific software.

"Our time can be spent assisting users. The Library is up-to-date, state-of-the-art software which has liberated us from having to write software."\* □

\*The preceding article was drawn from *IMSL Directions*, (Vol. 3, No.2) a quarterly publication of IMSL, Inc., Houston, Texas.



#### Young Adult Librarianship

On 5 June at 1:30 p.m., L. Amey, School of Library Science, Dalhousie University, Halifax, will present a seminar on current research in the field of young adult librarianship. The seminar will take place in the Faculty of Library Science, 3-06 Rutherford South. Visitors from the University community are welcome to attend. Advance notice by telephone will be appreciated (432-4578).

#### Shastri Indo-Canadian Institute

A meeting of the University of Alberta Shastri Indo-Canadian Institute's committee members will be held on 5 June at 3 p.m. It will take place in 5-20 Humanities Centre. The purpose of the meeting is to elect the office bearers for 1986-87 and to receive and discuss the Director's Report concerning the activities of the Institute in 1985-86.

#### Retirement Reception for L. Stephens-Newsham

There will be an informal reception for L. Stephens-Newsham, Faculty of Pharmacy and Pharmaceutical Sciences, on 6 June from 4 to 6 p.m. It will be held on the fourth floor of the Dentistry-Pharmacy Centre (room 4085). All friends and University staff who have worked with Dr. Stephens-Newsham over the years are invited to attend.

#### The Arts

##### Bruce Peel Special Collections Library

Until 31 July. "Publishers' Bookbindings in Cloth: Some Pictorial and Geometric Designs." Open Monday to Friday, 8:30 a.m. to 4:30 p.m. B-7 Rutherford South.

##### SUB Theatre

Until 31 May, 7:30 a.m. to 11 p.m. The Alberta Dance Educators' Association's Annual Dance Competitions. Marie Casey, 463-2105.

1 June, 2 p.m. St. Basil's Language Arts Society Annual Year End Concert. Marie Jiry, 435-2810.  
3 June, 7:30 p.m. Marr Mac Dance School Production. 435-4933.  
7 June, 7 p.m. The Ukrainian Cheremosh Society presents "Cheremshyna and Friends." 482-5506.

#### Ring House Gallery

1 to 29 June. "Against Great Odds—Posters of Nicaragua"—82 posters from and about Nicaragua tell the of the Sandinista revolution in 1979.  
1 to 29 June. "Jacques Hnizdovsky—Woodcuts and Linocuts"—24 woodcuts and linocuts by the Ukrainian born artist.

#### Edmonton Film Society

2 June, 8 p.m. British Film Classics, "The Passionate Friends" (1949).  
9 June, 8 p.m. "A Notorious Gentleman" (1945).

#### Musicians' Chamber Music Appreciation Society

2 June, 8 p.m. Marc Stocker—flute, Nora Bumanis—harp, Peter Douglas—bassoon with members and guests of the Debut String Quartet. Convocation Hall.

#### Studio Theatre

5 to 14 June. "Waiting for Godot." 432-2495.

#### Broadcasts

##### Radio

CKUA radio 580 AM and 94.9 FM.  
31 May, 7 p.m. "University Concert Hall." (Last concert until fall.)  
CJSR-FM 88.5, Campus Radio. Eclectic programming, including folk, jazz, new music, rock and U of A news and coverage. See *Airtight* magazine for programming details. Send public service announcements to 224 SUB, 432-5244.

#### Award Opportunities

##### Japanese Government (Monbusho) Scholarship

Donor: Ministry of Education, Science and Culture, Government of Japan.  
Where tenable: At a Japanese university.  
Level: Graduate. Field: Humanities, Social Sciences and Natural Sciences. Value: 173,000 yen per month, plus transportation, plus 25,000 yen arrival allowance, plus a designated field study allowance, plus tuition paid. Number: Not specified. Duration: Two years from April 1987 to March 1989, or one and a half years from October 1987 to March 1989. Conditions: Applicants must be Canadian citizens; must be under 35 years of age on April 1987; must be university or college graduates; study area must be in the same field as the applicant has studied or a related one; must be willing to study the Japanese language and to receive instruction in the language; must be in good health mentally and physically; must be able to leave for and arrive in Japan between 1 and 10 April 1987 and between 1 and 10 October 1987. Cl date: 19 September 1986. Further information and application forms should be requested from: Scholarship Program, Embassy of Japan, 255 Sussex Drive, Ottawa, Ontario K1N 9E6. Telephone: (613) 236-8541.

## Taking a Turn for the Better

At 87 Avenue and 114 Street, it's been a case of whatever the traffic will bear. However, with more and more private vehicles and ETS buses in the none-too-roomy vicinity of the University and the Mackenzie Health Sciences Centre, the intersection is being subjected to more than a little pressure. Enter the City of Edmonton, intent on easing the turns and thus contributing to happy motoring. Construction crews will be on site from early June to mid-August.

All city work will be done on city-owned property.

Concrete breakers, trucks, paving

equipment, etc. will be used to widen the west side of 114 Street north of 87 Avenue and the south side of 87 Avenue hard by the Newton Research Building.

The work will be noticeable but the inconvenience will be slight, says Al Robertson, Office of Planning and Development.

Some trees may be lost in the process but the City has offered all salvageable trees to the University. Mr. Robertson told *Folio*.

The easing of turns will necessitate a rearranging of the traffic lights and some light standards. □



## Come to a Garden Party

On the afternoon of Monday, 23 June, the University of Alberta will host a Garden Party to honour Peter Savaryn. All members of the University community are invited to attend the function to greet the retiring Chancellor whose four-year term ends 30 June.

The Garden Party will be held on the lawn at University House from 2 to 4 p.m. The highlight of the afternoon will be tributes to the Chancellor at approximately 3 p.m.

Guests attending the function may also wish to view the exhibition of woodcuts and linocuts by the late Jacques Hnizdovsky which will be on display in the Gallery. Chancellor Savaryn was instrumental in arranging for this exhibition to be brought to campus.

---

## Surplus Equipment

*The equipment appearing in this column is available only to University departments with University-administered funds. For more information, telephone Jody Brookwell or Roy Bennett, 432-3208.*

For Sale: (1) Brother HR-15 Printer (1) 15 Cut Sheet Feeder for Brother Printer Cable  
Mary Ennis, University Collections, 432-5818.  
Surplus Sales Public Auction, Tuesday, 15 July, at 6 p.m. Deadline for declaring equipment for this auction is 25 June. Start your spring cleaning now. Watch for posters giving more details.

---

## Positions

*The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

### Academic

As of 1 July 1986, the following vacancies will exist in Student Services. Applications should be forwarded to the Dean, Student Services, 300 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8, by 20 June 1986.

#### Director, Native Student Services

Reporting to the Dean of Student Services, the Director of Native Student Services is accountable for controlling the budget, and directing and coordinating all activities within Native Student Services, an office that is mandated to provide actual and potential Aboriginal students with a variety of support services. A full job description for the position is available upon request from the Office of the Dean of Student Services (432-2968).

Salary range: \$27,437 to \$41,165.

#### Student Adviser

The Student Adviser is accountable for the direction, development and on-going provision of the advisory services for students with academic and non-academic grievances and appeals within the University. The Student Adviser also acts as the Executive Secretary to the Council on Student Services (COSS), and is accountable for all aspects of the administration of COSS, including regular meetings, all subcommittee business, research and report production. A full job description for the position is available upon request from the Office of the Dean of Student Services (432-2968).

Salary range: \$26,249 to \$39,377.

#### Operations Officer

The Operations Officer is accountable for controlling the budget and administering the several operations of the Office of the Dean of Student Services, for monitoring the budgetary input and facilitating the operations of all Student Services units, and for providing an effective administrative support structure for the Dean of Student Services, the Council on Student Services (COSS), and the University Discipline Officer. A full job description for the position is available upon request from

the Office of the Dean of Student Services, 432-2968.

Salary range: \$29,843 to \$44,771.

#### Director, Women's Program and Resource Centre, Faculty of Extension

An appointment will be made at the level of Assistant Professor for a two-year term beginning 1 November 1986, with the possibility of renewal. The salary range is \$30,316 to \$43,780.

The Women's Program, initiated in 1981, links the resources of the University with needs and interests of women in the community for information, for education and for change. The over-all goal is the provision of educational interest to women which will increase awareness of the position of women in society and provide them with opportunities and means for improving that position, both individually and collectively.

Work includes a wide range of university-level non-credit courses, workshops, conferences and public talks in the areas of applied women's studies, issues of relevance to women and personal and skill development for women. Community action research on issues of importance to women will be undertaken as will liaison with local and national women's organizations.

Candidates should have a master's or a doctorate in women's studies, adult education, community development or other related discipline, and a minimum of three years' experience in the development and provision of innovative educational programming for women.

Candidates should have a demonstrated knowledge of the women's movement and a demonstrated commitment to the creation of opportunities for women's learning from a feminist perspective. Awareness of current issues impacting on women is essential. Experience in social animation and community based-research and familiarity with women's organizations in Alberta would be an asset.

Candidates should be creative, flexible, have strong interpersonal and communication skills and work well under pressure.

A letter of application, *curriculum vitae*, and the names and addresses of three references should be sent before 30 June 1986 to: Dr. D. Foth, Dean, Faculty of Extension, University of Alberta, 220 Corbett Hall, Edmonton, Alberta T6G 2G9.

### Non-Academic

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond the date of publication.*

Clerk Typist II, Physiology, (\$1,190-\$1,478)  
Clerk Steno II, Soil Science, (\$1,190-\$1,478)  
Senior Clerk, Physical Plant—Parking Services, (\$1,190-\$1,478)  
Clerk Steno III, Dean of Education, (\$1,326-\$1,666)  
Clerk Steno III, International Briefing Centre, (\$1,326-\$1,666)  
Clerk Steno III, Sociology, (\$1,326-\$1,666)  
Clerk Steno III, Physiology, (\$1,326-\$1,666)  
Clerk Steno III, Faculty of Extension, (\$1,326-\$1,666)  
Senior Financial Records Clerk, Chemical Engineering, (\$1,326-\$1,666)  
Data Entry Operator II (Part-Time Term), Educational Research Services, (\$686-\$870)  
Medical Stenographer, Psychiatry, (\$1,478-\$1,888)

Payroll Clerk, Office of the Comptroller, (\$1,478-\$1,888)  
Secretary, Centre for Study of Mental Retardation, (\$1,478-\$1,888)  
Administrative Clerk, Faculty of Extension, (\$1,478-\$1,888)  
Executive Secretary (Trust, Term to 31 December 1986), R.S. McLaughlin Examination and Research Centre, (\$1,666-\$2,144)  
Executive Secretary, Hub Mall, (\$1,666-\$2,144)  
Departmental/Executive Secretary, Personnel Services and Staff Relations, (\$1,666-\$2,144)  
Technologist I (Part-Time Recurring), Zoology, (\$1,340-\$1,730)  
Field Technician, Soil Science, (\$1,534-\$1,968)  
Evaluator I/II, Office of the Registrar, (\$1,666-\$2,548)  
Animal Technician II, Medical Microbiology, (\$1,739-\$2,237)  
Editorial Assistant, Educational Administration, (\$1,810-\$2,337)  
Nurse, University Health Service, (\$1,968-\$2,548)

*For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.*

---

## Advertisements

### Accommodations available

For rent - Three-room apartment. Own entrance. Three blocks from University. \$380 monthly. Older person preferred. 433-4870.  
Rent - Three large rooms, kitchenette, three-piece bathroom. Separate entrance, ground level. Country setting. Fifteen minutes from University. 434-6022.  
For sale or long-term lease - Pigeon Lake. New three-bedroom natural log house. Double treed lot at Johnsonia Beach, one-hour drive from Edmonton. Phone 435-8467.  
Sale - Windsor Park. Immaculate 1,460 sq. ft. home. Large lot. Very good University location. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - Grandview. Attractive well planned custom-built home. Super lot and great location. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - Riverbend. Attractive home with nice features. Large lot. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - Lakefront. Wabamun. Private beach. Good locations. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - University—Parkallen. Well-built, well planned immaculate bungalow. Double garage. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - Sask. Drive—Belgravia. Large bungalow. Large lot. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - 160 acres—\$25,900 or 18 acres—\$54,000 or one-acre city lots—\$49,000 up. Chris Tenove, 433-5664, 436-5250. Spencer's.  
Sale - Two-bedroom condominium close to University. Two balconies, five appliances. Upgraded broadloom. Underground parking. \$75,500. 432-1764.  
Sale - By owner. Bright and cheerful three-bedroom house in south Garneau. Quiet location. New suite in basement. \$92,500. 433-7567 after 3:30 p.m.  
House for rent - Main floor, two bedrooms, semi-furnished, four appliances, garage, garden, south side. Available 1 July. \$500/month. 454-4431.  
Rent - Fully furnished three-bedroom home in Capilano. Garage, fenced

yard, play area. Non-smokers, no pets. August '86-June '87. \$950/month plus utilities. 466-3257.  
Exchange - One year. Two-bedroom self-contained beautifully furnished condominium overlooking River Valley for similar property in Vancouver area. All appliances. Phone 482-3330 or weekends 967-3034.  
Sale - Duggan. Three-bedroom, bi-level. Finished basement, double garage. \$89,500. 432-3559.  
Rent - Duggan, three-bedroom, bi-level. Finished basement, 1 June, \$850/month. 432-3559.  
Sale - Parkallen bungalow. Hardwood floors, big lot. Close to University. You can occupy upstairs and rent out neat basement suite. Pat Von Borstel, 437-6540, 436-5250. Spencer's.  
Sale - Laurier. Quiet crescent location facing park. Three-bedroom bungalow. Family room/fireplace. Games room. Professionally designed kitchen. \$114,000. 14608 82 Avenue. 436-0011, 483-4988.  
For sale - \$134,900. Riverbend two-storey, four-bedroom home. Centre hall plan, south fenced garden, deck, family room, fireplace, attached garage. Eleanor Duncan, Royal LePage. 434-7368, 438-4700.  
For sale - Garneau, award-winning design. Multi-level, three-bedroom home, south garden, solarium, passive solar heating, fireplace, garage. Eleanor Duncan, Royal LePage. 434-7368, 438-4700.  
Sale - University condo, spacious one-bedroom with balcony, loads of storage, six appliances. Only \$57,500. Great location. Les Phillips, Spencer Real Estate, 436-5250.  
Rent - August/1 September 1986-31 August 1987. Comfortable three-bedroom sabbatical house. Garage, fenced. Furnished or partly furnished. 11220 94 St. \$450/month. (514) 937-7895 (collect).  
Rent - Furnished three-bedroom house. Windsor Park, near campus. October 1986-July 1987. Family only. \$800. Malcolm King, 432-6703.  
Rent - 1 July, Grandview executive four-bedroom house, five appliances. No pets. 436-3025. 16-17 June or (604) 327-7613 evenings now.  
Rent - Bachelor suite, second floor, non-smoker. 432-9538.  
For sale - Garneau Mews luxury townhouse, half block to campus, two bedrooms, underground parking, fireplace. Call Wayne Moen, 438-1575, 477-3688. Re/Max Real Estate.  
Sale - Four-bedroom bungalow with three bathrooms, garage, developed basement, facing University Farm. \$91,800. 434-7392.  
Sale - Parkallen, \$81,500. Spotless, four bedrooms, hardwood, fireplace, two baths, developed basement, 1,400 square feet. Mature yard. Call Lawrence, Century 21, Byron's. 437-1430.  
Sale - By owner. Immaculately renovated 2 1/2 storey, five-bedroom home in Millcreek. Features hardwood floors, wood burning fireplace, sunshine ceilings and much more. Asking price \$145,900. To view, call 433-3035.

### Accommodations wanted

Professional couple with one child wish to rent four-bedroom home, double garage, all appliances. Phone 467-4142 evenings.  
Five-bedroom home to rent for minimum of one year. University area preferred, starting August. Dr. G. Bird, 464-9407 or 992-0017 (home).  
Two girls with interest in housesitting. Prefer WWD of U of A campus; available 1 August 1986—flexible. Please call 270-7826 (Calgary), day or evening; Sheryl or Sharlene Janzen.

#### Automobiles and others

1981 Aries K SE, standard transmission, 2.2L engine, well maintained, 89,000 km. \$3,200 or best offer. 432-2653, 458-0473.

#### Goods for sale

Cash paid for used appliances, 432-0272. Guaranteed minimum \$50 trade-in on your typewriter for new electronic typewriters starting at \$449. Mark 9, HUB Mall, 432-7936.

\$40 off new electric typewriters, correcting key, full warranty, \$199. Mark 9, HUB Mall.

Reconditioned correcting IBM Selectric II typewriters, 4-8 years old, 3-month warranty, \$499-\$599. Mark 9, HUB Mall.

Philips Micom 2002 twin dedicated word processor, dual work stations, Micom daisy wheel printer, printer stand and table. \$5,000 O.B.O. Call Micaela, 432-2625.

Yamaha U3 walnut piano. Eight months old. 439-6608.

Queensize waterbed, reel to reel tape deck, older stereo, dog cage, humidifier. 439-1574 evenings.

#### Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment

costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Professional seamstress and tailors. Made to order garments. General alterations. 469-6292, consultant Phil.

Ecole Grandin offers Catholic education and strong French immersion program with academic emphasis, in downtown area. Also: Pre- and after-school care, French immersion pre-kindergarten. Close to University. 482-3676.

Sailing adventure - 55 ft. Ketch for skipper charter, B.C. coast. Sleeps 4-6. Choice of cuisine. Good rates. Brochures. Contact: James Stevenson, 2300 Canoe Cove Road, RR3, Sidney, B.C. V8L 2X9. (604) 656-9249.

Word Processing: Theses, dissertations, books, reports, papers. French bilingual. Reliable professional service. Lois McMahon, 464-2351.

French group lessons. 3-6 students per class. Adults/children. Contact Yves Puzo at L'Atelier, 432-7565.

Tis the thesis season. Unbeatable service on letters, résumés, term papers, and theses. Word processed and copied with Mark 9 quality. Open evenings, Saturdays. 432-7936.

Professional typing, \$1.10/page. Phone 435-3398.

E.T. Seamstress and Tailors, 11904 127 Avenue. General alteration specialist. Phone 451-0087 (we have the technology).

Word Processing. Ten years' experience. Medical/scientific word processing. Quality work. Excellent University references. Proofreading services offered to self-typists. Campus pick up and delivery. Susan, 469-3570. Summer Yoga (June-August) with Ernest Reinhold at the 4th Street Body Shop. Introductory and intermediate levels.

Attention to individual needs. For information and registration, call 424-2909 or 433-3533.

#### Lost and found

\$25 reward for plug-in Trillium TalkTo 616 business telephone belonging to Mark 9, Hub Mall, 432-7936.

### Garneau/University Child Care Centre

#### Location: Garneau School

We are presently accepting applications for children 2½ to 5 years of age.

—Subsidies available to qualifying families.

—Scheduled summer opening: **July, 1986**

Outstanding child care combined with educational program.

Well qualified staff.

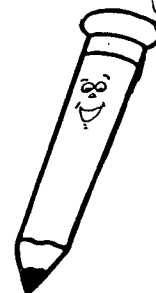
Excellent school facility.

Standards well above provincial requirements.

*Apply Soon*

**Application Forms and Brochures are available at Garneau School.**

*(in main office)*



### Cultural & Exchange Explorations

Nepal, a photo trek/tour

October 1986

India

November 1986

Thailand & Malaysia

February 1987

Tibet

Fall 1987 (tent.)

For information, call E. Reinhold 433-3533.

All arrangements by VISTA TRAVELS, Edmonton

### University of Alberta Fitness Unit

#### "Be Fit for Life" Fit Check

JUNE 16, 17, 18

7:00 - 10:00 pm

\$75.00 — Fitness and

Nutrition Assessments

—Workshops/Seminars

—Practical Sessions

—Be Fit for Life T-Shirt

#### Supervised Exercise Program

JUNE 16 - AUGUST 29, 1986

12:00 - 1:00 pm or

4:30 - 5:30 pm

\$150.00 — Pre- and

Post-Fitness Assessments

—Nutritional Assessment

—Lectures

—Personalized Exercise

Prescription

—10 Week Exercise

Program in the Fitness Unit

**432-4435**

*Please inquire about fee  
remission forms*

### TRAVEL CUTS CORPORATE SERVICES

TRAVEL CUTS is fully appointed to

make reservations for airlines, car

rentals, hotels and tours — both

international and domestic. We

are fully computerized and our

staff is knowledgeable about all

aspects of travel. We offer you

— a separate office with full-time

staff working only on faculty

travel

— convenient on-campus

location

— a company with 15 years in

the travel industry

— support of 14 Canadian offices

and one in London, England

Canadian Universities

Travel Service Ltd

Main Floor, SUB 432-2756

### University of Alberta Fitness Unit

Fitness Testing

Nutrition Appraisals

Exercise Prescriptions

Supervised Exercise Programs

Be Fit for Life Fit Checks

**432-4432**

W1-55, Van Vliet Centre

**Inquire About Fee Remission Forms**

## RESEARCH APPLICATIONS INVITED

### OCCUPATIONAL HEALTH AND SAFETY HERITAGE GRANT PROGRAM

The Occupational Health and Safety Heritage Grant Program is interested in receiving research applications which address significant health and safety problems facing workers in Alberta. Funds are available to support sound research in two major areas. The first encompasses studies which assess work hazards in high risk jobs, including research on work procedures, worker performance and industrial processes. The second includes studies to determine which prevention strategies are most effective in reducing job-related accidents and illnesses. Funds are also available to support the development of innovative educational programs which emphasize the recognition and control of occupational hazards.

Prospective applicants are encouraged to discuss their ideas and intentions with the Program Administrator prior to submission of an application.

Application forms and further information may be obtained by contacting:

HERITAGE GRANT PROGRAM  
OCCUPATIONAL HEALTH AND  
SAFETY DIVISION  
5th Floor Donsdale Place  
10709 Jasper Avenue  
EDMONTON, Alberta  
T5J 3N3 (403) 427-8943



Heritage Fund

**Alberta**  
WORKERS' HEALTH, SAFETY  
AND COMPENSATION